

MinWat2014

International Multidisciplinary Conference on

Mineral Waters

Genesis, Exploitation, Protection and Valorisation

Karlovy Vary (Carlsbad), Czech Republic, 8-11 September 2014



Version 22 March 2014

In addition to the accompanying general flyer about the MinWat2014 conference, this flyer provides information about

Theme B: BOTTLED WATER — MARKET AND DEMAND, HEALTH ISSUES

Web site: <http://minwat2014.vuv.cz/>

Abstract submission deadline was February 9, 2014. After February 9, 2014, in principle for posters only.
... for Theme B, late abstracts for oral presentation are possible till June 4.



Conference structure – updated (February 2014)

All presentations (themes A, B and C) during the entire conference time will be held in **plenary way**, i.e. in one lecture hall only. The programme during each day will consist of a number of presentation time blocks, each of these time blocks being devoted to a certain theme. At the beginning of each day – and at the beginning of most presentation time blocks – **introductory keynote lectures** will be held. The main objective of these keynote lectures will be the presentation of typical problems existing in the fields of hydrogeology-hydrogeochemistry (theme A), **bottled mineral water (theme B)**, and balneology (theme C). These introductory keynote lectures are intended also for colleagues from other disciplines. By doing so, the experts from, for example, water bottling and balneology will learn about current issues in the field of hydrogeology and hydrogeochemistry, and vice versa, of course. The invited keynote lectures (30 minutes) will be followed by a series of **regular oral presentations** (15 or 20 minutes). Most presentations are expected from themes A and B. Also possibility to present the work by means of **posters**.

Themes and Topics

The conference will be an opportunity for official or informal meetings of leading players in the field of mineral waters: hydrogeology and hydrogeochemistry, water bottling, and balneology. The conference involves the following three themes:

Theme A: HYDROGEOLOGY AND HYDROGEOCHEMISTRY — ORIGIN, PROTECTION AND MANAGEMENT

Represented by the International Association of Hydrogeologists (IAH), the International Association of Hydrological Sciences (IAHS), and Fachsektion Hydrogeologie in der Deutschen Geologischen Gesellschaft Hydrogeology Section of the German Geological Society (FH-DGG)

Theme B: BOTTLED WATER — MARKET AND DEMAND, HEALTH ISSUES

*Represented by the European Federation of Bottled Waters (EFBW) **THIS FLYER***

Theme C: BALNEOLOGY — BALNEOTHERAPY AND BALNEOTECHNICS

Represented by the International Society of Medical Hydrology and Climatology (ISMH), World Federation of Hydrotherapy and Climatotherapy (FEMTEC), and the European Spas Association (ESA)

Theme B: BOTTLED WATER — MARKET AND DEMAND, HEALTH ISSUES

(this theme deals also with public health, but not with treatment of diseases, bodily injuries, etc.)

Theme B includes the following topics:

- B.1. Challenges and opportunities of the European bottled water sector
- B.2. The original (pristine) purity of natural mineral waters“ – the legislation of the EU, as opposed to that of Czech Republic, does not specify the highest minimum required sensitivity of method detectable levels for chemical analysis methods used to establish the content of anthropogenic constituents, of which the consequence is that the gradual improvement of tools and methods leads to detection of some constituents undetectable before.
- B.3. The analysis of contaminants at ultratrace level in water, and how to avoid ‘false positive’ results – Also the issue of emerging contaminants, and how to proceed for analyses with very low threshold
- B.4. EU situation in relation to health claims: what can be claimed by mineral water brands based on EU legislation and recent work by European Food Safety Authority (EFSA)? – Mineral waters as part of food, and legislation on health and nutrition, for example (i) Commission regulation (EU) No 432/2012 of 16 May 2012 establishing a list of permitted health claims made on foods, other than those referring to the reduction of disease risk and to children’s development and health, and (ii) Regulation (EC) No 1924/2006 of the European Parliament and of the Council of 20 December 2006 on nutrition and health claims made on foods
- B.5. Safety of packaging: the issue of plastics (the safety of PET bottles)
- B.6. Daily intake of mineral waters – links with (i) the definition of natural mineral waters, (ii) contents of natural minerals and its effect on health, and (iii) benefits of mineral waters over drinking water
- B.7. Use of mineral waters for children nourishment (mineral waters suitable for preparation of baby food)
- B.8. The issue of medicinal effect of bottled mineral waters (specifically highly mineralised waters). – Classification of these waters is not regulated by European legislation and therefore these waters are in some countries considered as food, and health supporting additive in other countries.
- B.9. The issue of microbiological quality of natural mineral waters (as no water purification treatment by chlorination or similar method)
- B.10. Containers (plastic, etc.) of bottled waters and their impact on the environment – Recycling
- B.11. Bottled water in developing countries: Benefit for the whole population or ‘stealing’ water from the poor?

The **topics** within themes A and C are outlined in other specific flyers, or can be found on the conference web site.

Theme B is, in either case, relevant for

- professionals involved in distribution of bottled mineral waters whose activities are essentially dependent on the results of hydrogeological exploration. This includes also the managers and hydrogeologists from bottling companies and, if such companies do not have their own hydrogeologist, the quality managers.
- hydrogeologists and hydrogeochemists who deal with the search for and protection of mineral water resources. This regards hydrogeologists from universities, research institutes and private consultancy firms particularly those interested in thermal and mineral waters.
- administrations (local, regional, national, European, etc.) that evaluate projects aimed at development of new sources of natural mineral waters. It also includes professionals and administrators involved in designing the regulatory measures for safeguarding and protection of natural mineral water resources.

Scientific Advisory Committee for Theme B

Please refer to the conference web site for members of the Scientific Advisory Committee affiliated with Theme B.

Venue – Karlovy Vary (Carlsbad)

Transportation from Prague Airport to Karlovy Vary and vice versa



The conference will be held in the Hotel Thermal, in the famous spa city Karlovy Vary (Carlsbad in English), about 130 km west of Prague.

Karlovy Vary was founded by the King of Bohemia, and Holy Roman Emperor Charles IV in 1358. The maximum temperature of the thermal springs is 73.4°C. You can make use of the Student Agency bus connection (every hour) between Prague, Prague Airport and Karlovy Vary, and vice versa. For details see "Transportation / Travel" on the conference web site.

